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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Joachim Kiefer, Gordon Calundann, Oemer Uensal, Jochen Baurmeister, and Frauke Jordt

Application No.: 10/525,590 Group Art Unit: 1711

371(c)/Filed: May 24, 2005 Examiner: Not Assigned

Confirmation No.: 4988

Title: Polymer Film Based on Polyazoles, and Use Therof

CERTIFICATE OF MAILING OR TRANSMISSION	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or is being facsimile transmitted to the United States Patent and Trademark Office on:	
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INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This Information Disclosure Statement is submitted:

☐ under 37 CFR 1.129(a), or  
(First/Second submission after Final Rejection)

☒ under 37 CFR 1.97(b), or  
(Within any one of the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage in an international application; or before the mailing date of a first office action on the merits in a non-provisional application, including a CPA, or a Request for Continued Examination).

☐ under 37 CFR 1.97(c) together with either:  
☐ a Statement under 37 CFR 1.97(e), as checked below, or  
☐ a \$180.00 fee under 37 CFR 1.17(p), or  
(After the 37 CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)

☐ under 37 CFR 1.97(d) together with:  
☐ a Statement under 37 CFR 1.97(e), as checked below, and  
☐ a \$180.00 fee under 37 CFR 1.17(p), or  
(Filed after final action or notice of allowance, whichever occurs first, but on or before payment of the issue fee)

☐ under 37 CFR 1.97(i):  
Applicant requests that the IDS and cited reference(s) be placed in the application filewrapper.  
(Filed after payment of issue fee) ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /DT/

Statement Under 37 CFR 1.97(e)

- ☐ Each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- ☐ No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Statement Under 37 CFR 1.704(d) (Patent Term Adjustment)

Applies to original applications (other than design) filed on or after May 29, 2000

- ☐ Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.
- ☒ Enclosed herewith is form PTO-1449:
- ☒ Copies of the cited references are enclosed.
- ☒ Copies of issued U.S. patents and published U.S. applications are not required and are not being provided.
- ☐ Copies of the cited references are enclosed except those entered in prior application, U.S. Application No. [ ], to which priority under 35 U.S.C. 120 is claimed. [The earlier application contains copies of the cited references.]
- ☒ The listed references were cited in the enclosed International Search Report in a counterpart foreign application. **[A18, B2, B4, B10, B16, B17, B19 and C1]**
- ☒ The "concise explanation" requirement (non-English references) for references B1-B3, B5, B6, B13, B16-B19, B21-B27 under 37 CFR 1.98(a)(3) is satisfied by:
- ☐ the explanation provided on the attached sheet.
- ☐ the explanation provided in the Specification.
- ☐ submission of the enclosed International Search Report.
- ☐ submission of the enclosed English-language version of a foreign Search Report and/or foreign Office Action.
- ☒ the enclosed English language abstract.

☐ Applicant requests that the following non-published pending applications be considered:

Examiner's  
Initials

\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]

\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]

\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]

\_\_\_\_  
Examiner

\_\_\_\_  
Date

- ☐ A copy of each above-cited application, including the current claims, is enclosed, except any application filed on or after June 30, 2003, which has been scanned into the PTO's Image File Wrapper (IFW) system and is available to the examiner.
- ☐ A copy of each above-cited application, including the current claims, is enclosed, except those entered in prior application, U.S. Application No. [ ], to which priority under 35 U.S.C. 120 is claimed.

The Examiner is requested to return a copy of the above list of pending applications indicating which references were considered with the next office communication.

It is requested that the information disclosed herein be made of record in this application.

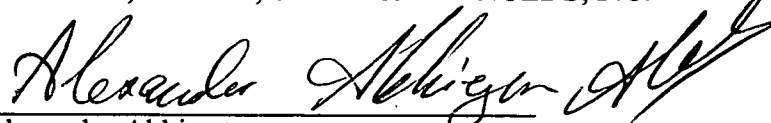
Method of payment:

- ☐ A check for the fee noted above is enclosed, or the fee has been included in the check with the accompanying Reply. A copy of this Statement is enclosed.
- ☐ Please charge Deposit Account 08-0380 in the amount of \$[ ]. A copy of this Statement is enclosed.
- ☒ Please charge any deficiency in fees and credit any overpayment to Deposit Account 08-0380.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By

  
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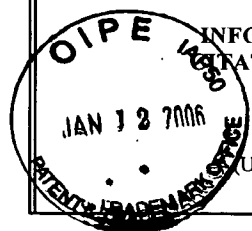
Dated: 1/5/06

PTO-1449 REPRODUCED

ATTORNEY DOCKET NO.  
3799.1010-000APPLICATION NO.  
10/525,590FIRST NAMED INVENTOR  
Joachim Kiefer371(c)/FILING DATE  
May 24, 2005EXAMINER  
Not assignedCONFIRMATION NO.  
4988GROUP  
1711INFORMATION DISCLOSURE  
STATEMENT IN AN APPLICATION

January 10, 2006

(Use several sheets if necessary)



## U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL	REF. NO.	DOCUMENT NUMBER Number-Kind Code (if known)	ISSUE DATE / PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT
	A1	3,313,783	04-11-1967	Iwakura, <i>et al.</i>
	A2	3,224,908	12-21-1965	Duch <i>et al.</i>
	A3	3,293,088	12-20-1966	Herbst <i>et al.</i>
	A4	3,737,045	06-05-1973	Hasimoto <i>et al.</i>
	A5	3,808,305	04-30-1974	Gregor
	A6	4,012,303	03-15-1977	D'Agostino <i>et al.</i>
	A7	4,075,093	02-21-1978	Walch <i>et al.</i>
	A8	4,187,333	02-05-1980	Rembaum <i>et al.</i>
	A9	4,537,668	08-27-1985	Gaussens <i>et al.</i>
	A10	4,622,276	11-11-1986	Walsh
	A11	4,634,530	01-06-1987	Kuder <i>et al.</i>
	A12	5,098,985	03-24-1992	Harris, <i>et al.</i>
	A13	5,211,984	05-18-1993	Wilson
	A14	5,218,076	06-08-1993	Madison, <i>et al.</i>
	A15	5,312,895	05-17-1994	Dang, <i>et al.</i>
	A16	5,492,996	02-20-1996	Dang, <i>et al.</i>
	A17	5,599,639	02-04-1997	Neoya <i>et al.</i>
	A18	5,633,337	05-27-1997	Tan <i>et al.</i>
	A19	5,643,968	07-01-1997	Andreola <i>et al.</i>
	A20	5,656,386	08-12-1997	Scherer <i>et al.</i>
	A21	5,674,969	10-07-1997	Sikkema, <i>et al.</i>
	A22	6,030,718	02-20-2000	Fuglevand <i>et al.</i>
	A23	6,087,032	07-11-2000	Yoshitake <i>et al.</i>
	A24	6,096,369	08-01-2000	Anders <i>et al.</i>
	A25	6,110,616	08-29-2000	Sheikh-Ali <i>et al.</i>

EXAMINER

/Duc Truong/

DATE CONSIDERED

06/04/2008

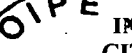
ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /DT/

APPLICATION NO.  
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 JAN 12 2006  
 January 10, 2006  
 (see several sheets if necessary)

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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER Country Code-Number-Kind Code (if known)	DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT	TRANSLATION YES NO	
	B1	DE 101 48 131 A1	05-08-2003	GKSS-Forschungszentrum Geesthacht GmbH		
	B2	DE 1 301 578	08-21-1969	Teijin Ltd.		
	B3	DE 196 53 484 A 1	06-25-1998	Fraunhofer Ges Foerderung Angewandten		
	B4	EP 0 265 921 A2 & A3	05-04-1988	Hoechst Celanese Corporation		
	B5	EP 0 846 733 A2	06-10-1998	Daimler-Benz Aktiengesellschaft (DE)		
	B6	EP 0 893 165 A2	01-27-1999	Huels Chemische Werke AG		
	B7	EP 1 110 992 A1	06-27-2001	Kabushiki Kaisha Toyota Chuo		
	B8	EP 1 202 365 A1	05-02-2002	Center for Advanced Science and Technology Incubation, Ltd.		
	B9	EP 1354907 A1	10-22-2003	Toyo Boseki Kabushiki Kaaisha		
	B10	WO 94/25506	11-10-1994	Akzo Nobel N.V.		
	B11	WO 99/10165	03-04-1999	Foster-Miller, Inc. (US)		
	B12	WO 00/49069	08-24-2000	Mikael Paronen		
	B13	WO 00/54351	09-14-2000	Center for Advanced Science and Technology Incubation, Ltd.		
	B14	WO 01/45192 A1	06-21-2001	Proton Energy Systems, Inc.		
	B15	WO 01/94450 A2	12-13-2001	SRI International and Polyfuel, Inc.		
	B16	WO 02/081547 A1	10-17-2002	Celanese Ventures GmbH		
	B17	WO 02/088219 A1	11-07-2002	Celanese Ventures GmbH		
	B18	WO 02/38650 A1	05-16-2002	Toyo Boseki Kabushiki Kaaisha		
	B19	WO 03/022412 A2 & A3	03-20-2003	Celanese Ventures GmbH		
	B20	EP 0 476 560 A1	09-16-1991	The Dow Chemical Company		
	B21	WO 02/071518 A1	09-12-2002	Celanese Ventures GMBH		
	B22	WO 02/102881 A1	12-27-2002	Celanese Ventures GMBH		

EXAMINER

/Duc Truong/

DATE CONSIDERED

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APPLICATION NO.  
10/525,590

## INFORMATION DISCLOSURE CITATION IN AN APPLICATION

FIRST NAMED INVENTOR  
Joachim Kiefer

371(c)/FILING DATE  
May 24, 2005

**January 10, 2006**

(Use several sheets if necessary)

EXAMINER  
Not assigned

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## FOREIGN PATENT DOCUMENTS

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APPLICATION NO.  
10/525,590

## 4 INFORMATION DISCLOSURE CREATION IN AN APPLICATION

FIRST NAMED INVENTOR  
Joachim Kiefer

371(c)/FILING DATE  
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1711

**January 10, 2006**

(Use several sheets if necessary)

**OTHER DOCUMENTS** *(Including Author, Title, Date, Pertinent Pages, Etc.)*

C1

Osaheni, J.A. and Jenekhe, S.A., "Synthesis of Processing of Heterocyclic Polymers as Electronic, Optoelectronic, and Nonlinear Optical Materials. 4. New Conjugated Rigid-Rod Poly(benzobis(imidazole)s)," *Macromolecules* 28:1172-1179 (1995).

C2

Polymeric Materials Science and Engineering, Y. Sakaguchi et al., Vol. 84, 2001, p. 899-900.

EXAMINER

/Duc Truong/

DATE CONSIDERED

~~06/04/2008~~

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /DT/